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APPLICATION NO. FILING DATE		TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
09/884,998 06/21/2001		06/21/2001	Takemori Takayama	980923A	5046			
23850	7590	03/10/2005		EXAMINER				
		ATZ, QUINTOS,	IP, SIKYIN					
1725 K STR SUITE 1000		<i>f</i>		ART UNIT	PAPER NUMBER			
WASHING	TON, DC	20006	1742					
				DATE MAILED: 03/10/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.	Applicant(s)				
09/884,998	TAKAYAMA ET AL.				
Examiner	Art Unit				
Sikyin Ip	1742				

Before the Filing of an Appeal Brief --The MAILING DATE of this communication appears on the cover sheet with the correspondence address --THE REPLY FILED 23 February 2005 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. 🛛 The reply was filed after a final rejection, but prior to filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: a) \square The period for reply expires $\underline{3}$ months from the mailing date of the final rejection. b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPÉP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) a set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL 2. The reply was filed after the date of filing a Notice of Appeal, but prior to the date of filing an appeal brief. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appea has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). **AMENDMENTS** 3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below); (b) They raise the issue of new matter (see NOTE below): (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: _____. (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s): ___ 6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 25-33. Claim(s) withdrawn from consideration: ____ AFFIDAVIT OR OTHER EVIDENCE 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11. The request for reconsideration has been considered but does NOT place the application in condition for allowance because: Applicants' remarks in page 2, items A and B is noted. Applicants' attention is directed to final rejection page 4, section "Response to Argument." (Also see attached composition for 10B37 alloy steel) Applicants' argument in page 8, third paragrah is noted. But, Figure 8, the core layer between the hardened inner and outer layers contains bainite + ferrite, ferrite, sorbite, martensite + sorbite structures. 12. Note the attached Information Disclosure Statement(s). (PTO/SB/08 or PTO-1449) Paper No(s). 13.

⊠ Other: See Continuation Sheet.

PRIMARY EXAMINER

Application No.

Continuation of 13. Other: 2 pages 10B37 steel composition from http://www.kokura.sumitomometals.co.jp/e/product/sumitomo/01_09.html.

◆ SUMITOMO METALS (KOKURA)

Information on Products

बुक्राट

Company Profile

ার প্রবাদ্যালয় বিশ্বনার বিশ্

Japanese▶▶

Boron steels (representative example)

	Class sym- C		C Si		P	s	Cr	В	Allowable bar dia (mm) (Where 80% mart hardness is requithe center) SCM435 SCN (HRC45) (HR		
	bol								Water		Wate
Low carbon boron steels	10B21	~	0.15 ~ 0.30	~	n nan	≤ 0.050	-	≽ 0.0005	-	-	≤25¢
	10B22	0.18 ~ 0.23	-	0.70 ~ 1.00	≤ 0.040	≤ 0.050	-	≽ 0.0005	-	-	≤20 ¢
	ASMN 20B	0.17 ~ 0.23	0 10	1.10	0 030 ≷	≤ 0.030		≽ 0.0005	-	-	≤28¢
	15B25	0.22 ~ 0.30	0 10	0.75 ~ 1.25		≤ 0.040	-	≽ 0.0005	<u>-</u>	•	≤32¢
	15B26	0.20 ~ 0.30	n 1n	1.00 ~ 1.50	≤ 0.035	≤ 0.040	-	≽ 0.0005	-	ı	≤36¢
	SBR22	0.19 ~ 0.24	≤ 0.35	0.80	W	≤ 0.035	0.15	0005	-	ı	≤28¢
Medium carbon boron steels	S33C +B	~ `	0.15 ~ 0.35	~	≤ 0.030	≤ 0.035	-	≽ 0.0005	≤21φ	≤11φ	-
	10B35	~	0.15 ~ 0.35	~	≤ 0.030	≤ 0.035	≤ 0.35	≽ 0.0005	≤23φ	≤13φ	-
	10B37	~	0.15 ~ 0.35	~	≤ 0.030	≤ 0.035	≤ 0.35	≽ 0.0005	≤25φ	≤15φ	-
	15B35	~	0.15 ~ 0.35	~	≤ 0.030	≤ 0.035	≤ 0.35	≽ 0.0005	≤36φ	≤20φ	-
	i0B36	0.32 ~	0.15 ~	1.20 ~	€ 0.030	≤ 0.035	-	≽ 0.0005	≤40φ	 ≤23φ	

1	 	0.37	0.35	1.50				_			
	15B41	0.36 ~	0.15 ~	1.35 ~, 1.65	≪	- <u>-</u> ≤- 0.035		≽ 0.0005	≤50φ	≤35φ	-
	10B40	0.38 ~	0.15 ~		0 030 ≷	≤ 0.035	≤ 0.35	≽ 0.0005	≤43φ	≤25φ	•
	15B40	0.39 ~	0.15 ~	1.10 ~ 1.40	 ≪ 0.30	≤ 0.035	-	≽ 0.0005	≪45φ	≤27φ	-
Alloy boron steel	E202	0.17	0.15	1.10		≤ 0.035	0.40 ~ 0.75	0005	-	-	≤25 φ
	SBR23	0.20 ~ 0.25	≤	0.70	_	≤ 0.035	0.70	0005	-		≼36ф
	51B30	0.28 ~	0.15 ~	0.70 ~ 0.90	0 030 €	≤ 0.035	0.80	_	≼38φ	≤22φ	-
	51B40	0.38	0.15 ~	0.70 ~ 0.90	0 030 €	≤ 0.035	0.70 ~ 0.90	0005	≤50φ	≤30ф	-
	SCR 440B	0.37	0.15	0.55	<	≤ 0.035	0.85 ~ 1.25	0005	≤55φ	≤33φ	-
	SUP11	10.50	[0.15]	[0.65]	<	≤ 0.035	10.65	0005	_	· _	-
	51B60	10.55	IO.15	เบ.ชว	<	≤ 0.035	լս.օս	0005	-	-	_

[|] Characteristics and Kinds of Products | Main Products and Their Application (Steel Bars

[|] Main Products and Their Application (Wire Rods and Bar in Coil) |

[|] Main Products and Their Application (Large-Sized Steels for Forging) |

[|] General Standards for Commercial Steels | Sumitomo Standards for Commercial Steels